Rec.d Cambridge October 24th
Ans.d Nov.r Jan 21st

St Louis Oct 18– 1856

Dear Sir

I yesterday re=
ceived your esteemed letter of
the 11th inst– with the enclosed
list of the botanical works of
Sir W J Hooker– which are vastly
more voluminous than I expected
– and but few of them that I
could select at present– viz

Exotic Flora
Catalogue of Bot. garden Glasgow
Icones Plantarum ——

—

Hope you will not give your
self much trouble, in the making
of these remarks— as you might
probably find some others equal
=ly or more suitable to my object
– that is to acquire a knowledge

of botany & horticulture my-
self — & diffuse a taste for the
same among others — in the
purchase of books you can go
to the amount of one hundred
dollars, which I will refund
to you either here, or in Lon-
=don — but if you meet with
anything suitable to an object
please let me know — as I shall
want books if I stay here
to select them — and am very
much flattered at the interest
you take in my projects plans
— we had the first slight frost
here Sept 24th — a much earlier
than in 1855 — and again the first
two nights more severe — all the
dear garden annuals are withered
— your cacti are in doors and
in the plans you selected — one of

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Mann: a flower - but only for
a day - in town had a fair
at St Louis, as you can probably
aware - the horticultural part of
it was rather poor - being too late
in the season for flowers - the
fruits were better, and culinary
vegetables of every description - among
the flowers the Strelitzia regina
was in bloom - a rarity to me -
- the rains were very serviceable
fruit trees promise well for next
years produce - my finest pear
was 13 ins circumference & 1lb 4 oz
- Duchesse d'Angouleme -
- is there a catalogue of the Cam
bridge garden - if so please send
it me - get all the plants & cata
logues you conveniently can - my
mind is intent on the undertaking
- which I am exercising to com-

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=mucc — and by dint of reading
and observation am endeavouring
to gather up some crumbs of
botanical Science — I am happy
I am finding you take
an interest in my plans —

Yours truly
Henry Shaw

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List of Books sent by
Shaw
to Metten.
Weights Catalog 1857

		Rtl.
80	Aiton	8c
5-6	Allioni	15
96	Ambletta	8
133	Barton	1f
197	Brown	½
472/a	Clarke	15
480	— —	½
508	Cates by	15
659	Desfontaines	23
668	Dict. de Sav	110
667	Dilleanius	8
695	Don	10
696	"	5
730	Duhamel	6f
754	Edwards	6f
952	Forskiol	2
953	—	2
1029	Juss.	6

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1309	Hooker	E	4	—	14 2/3
1313	Do	—	3	—	18 1/2
1320	Do	—	10	—	30 2/3
1479	Kirby	L	1	—	8
1579	Labillardiere	L	1	—	2 2/3
1591	Lamark	L	1	—	10 1/2
1745	Linneus	L	1	—	16 1/2
1751	Do	L	1	—	1/3
1769	Do	L	1	—	
1774	Laddiges	E	20	—	100
1793	Loureiro	L	2	—	1 1/4
2528	Ruiz	L	1	—	6
2628	Shweff	L	1	col	12 1/2
2764	Smith	E	2	—	45
2874	Swantz	L	3	—	6 1/4
3269	Delessert	F	3	—	8

Henry Shaw

Jan 12 1858

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Rec'd Munchen Octo 25
Ans Frankf Dec 14

St Louis Sept 15
1857

Dr Engelmann

Dear Sir

I was much
gratified at receiving your es-
teemed letter per hands of Dr Pp—
and am glad to hear you were
well and enjoying yourself at Kew
— you must have missed my last
letter addressed to your Frankfort
Frankfort on Maine — your dear Sir
man — and another amateur com
at Town Grove — looking at the
Cacti — and no doubt will report
to you Concerning them — they are
now out of doors and in a fine grow
ing state — but shall take them

Dear before the 1st of October
the weather is now fine and
warm, the crops are maturing finely
and fruits an abundant=
Board of the deer you sent me from
Berlin - came up and flowered
most of them are annuals - more
kinds of perennial trees and shrubs
shrubs would be acceptable -
— The cereals from St Vil
morin - shall have my best attention
-tion, when they arrive - the
garden is all trenched over 2ft deep
(cost $1000) and in fine order for plant
ing anything - two large tanks, 10,000
gals - two wells, with a pump
over arched with stone and lime
& deep - the drains & tanks cost $2000
- am now building the walls of

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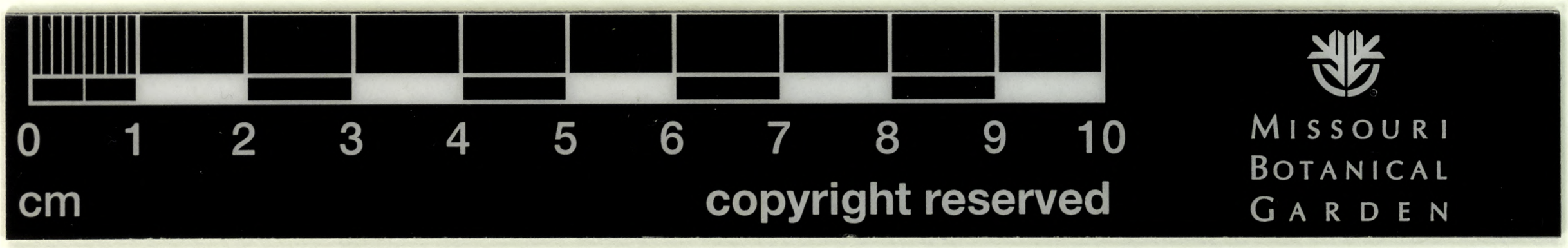

stone and brick, two sides will be finished in 60 days at a cost of $6000 — the east or entrance side intend to build next year, and also the plant houses — so that you see I am by no means idle — but if I attempted too much at once, should make a fatigue of a pleasure — the museum and library, must be built after the plant houses — say in 1859 — as I intend to have anything substantial and elegant — but on a small scale, — shall commence the ornamental planting next Spring — the botanical arrangement afterwards — all this and doing according to my own ideas — gathering horticultural works &

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London, Mc Intosh &c — no
one here can give me the least
information ——— ——————
respecting the botanical library
if you will have the goodness to
send me a list of such works as
you consider the most essential
— I will select from them what
may appear to me most useful
for the student, — As to the lo-
cation you mention of Prof Bo
reland — if it is in your order you
can purchase the same at the
price you mention (£600) — I
suppose the descriptions are in
latin — for if in german they will
not be so generally useful —
— How obtain dryed Specimens
of seeds, fruits & woods of trop-

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= cal grow there as at Kew - a
good collection in this way
would be among the most in
-teresting and instructive things
we could have — — — —
Am afraid shall have diffi
-culty in meeting with an in-
-structed gardiner, I shall want
an intelligent energetic man
to arrange and take charge
of our accumulating treasures
- plants are like children I shall
for some account of Can & proper
treatment — this gives me more
Concern than ever — for I cannot
possibly attend to the plants my
self — even if I were competent —
— I take a great and increasing
interest in my undertaking

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and am devoting myself
almost entirely to it — shall
have a plan made of the
grounds as well as of the whole
of my Tower Grove estate, & send
a copy to Sir W Hooker for his
inspection and advice —
With many thanks for the in
terest you take in the St Louis
Garden and its success
I remain Yrs truly
Henry Shaw

I am about an England
for the east of the Herbarium
and must when you have
made the purchase —

Commencement

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Rec'd Genua 12 Febr
Ans Rom 14 Apl

Tower Grove Jan 13th 1858.

Dr. Engelmann

Dear Sir

Last week I received your esteemed letter from Frankfort on to day have the pleasure of receiving yours from Leipsic - when Mr Reuss presents your draft I shall duly honor the same - with many thanks for your attention in this matter - If you have not forwarded the boxes - so much the better - do not do so until the summer or early Autumn - and from Bremen or Hamburg to New Orleans - as the expense of express from New York would be considerable more perhaps than you are aware — and if possible my dear Sir by all means get the dificient labels to them, perhaps the cost would be Considerable but then what an advantage to have them complete - I should not regret the expense - it could not be done probably in St Louis. except by yourself - and then you will be otherwise occupied - better be done in Europe, where men of science are not so scarce — — — — —

The list of Books has my best attention - and from

it have selected 34 works mostly such as you have sound - these will be as many as I wish to have at present, when we get the library & museum built in 1860 - we will make a more liberal purchase - you will observe the most costly is 730 - Duhamels Traite des arbres - if you think this too much assembles Loudons Arboretum - you can substitute Hum - bolts work 13/64 - I have all Loudons works except his gardeners magazines 1st & 2nd series which I should very much like to have - they con - tain valuable information to persons like myself de - voted to horticulture and planting — and the books via N York - by express to St Louis - or if you have the influence through the Smithsonian insti - tution - if that would save the duties — I hope you will not be displeased at my not following in full your recommendations - Sibthorpes Flora Graeca was offered at St Louis for $200 - but no purchaser was found, so little taste is there for botanical work in the latin language -

I am employed every day in my great undertaking I may say every hour in the day - good Sub Stantial Stone & brick drains are made in every

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part of the ground, the stone wall on the east side
& brick wall coped with stone on the north side are
finished at a cost of $000 Dlls - am now proceeding
with entrance gate & lodge on the eastern front - which
with the stone walls & iron railing I estimate to cost
not much short of $10,000 - all substantial and ele-
gant - at the same time shall commence the plant houses
(150 feet) against the north wall - (one of the compartments
intend for Cacti & succulent plants) also the vase
-rium or sunk parterre - which together with the
plant houses will cost abt $5000 - thus buildings
with some planting of trees & shrubs, planting trees
fencing Tower Grove & Shaw Avenue, & building
two brick cottages - will be my work for the
present year 1858 - I enclose you a plan of the
garden & the lands intended to endow the same
in and now 600 acres - at the next session of our
State legislature intend to apply for a charter -
- the assistance I want at present is a good gardener
one that understands the cultivation & shifting of plants
& trees - am afraid we shall not get the services of
the gentleman you mention - a gardener such as I want is not easily found - and am afraid
this will be my first difficulty, a gardener cannot be
made in a year or two, he must be a man of experience

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observation, I am sorry to say the profession is sadly undervalued in America — the death of Mr Rhiel was a great loss to our horticultural science it was a gloomy day for Missouri when he departed — the financial crisis in St Louis is in a great measure passed, our produce brings low prices, and commerce is languid, rents & wages on the decline, but as yet the mild winter & abundance of food & fuel has prevented distress among the poor of our city — Mr Barth has returned from Europe, he missed seeing you — Mr Palm I seldom see — all our business men have been very much alarmed & some seriously injured — We bk notes are two % & Ills 4% discount for gold — every one takes Ills notes, the baker the butcher & mechanic —

Your trees are about the same as to appearance, we do not syringe them, but dampen the pots occasionally with water — in small quantity — my old plant houses are now warmed with hot water pipes — a mild congenial heat & a great saving of fuel — I feel quite competent to the building of plant houses, suited to this climate — as regards construction, heating & ventilation — theoretically from books & six years experience in my private garden — To conclude I call your attention to the enclosed plants & mino^m of books — in the perusal of some of which I anticipate great pleasure — I have sent plants to Prof. Gray & Sir W Hooker — and with many thanks for your plants & exertions — remain Yrs truly

Henry Shaw

Rec'd May 5th June

St Louis May 18th 1858

Dr. G Engelmann

Dear Sir

Your esteemed

letter dated from Rome Apl 14 came

to hand this day, and am glad to hear

that you are well and on your return

home - when Mess" Rapp & Co. present your

draft - it shall be paid at sight - & many

thanks for your trouble in the transaction

of those affairs - I submit with due defer

-ence to the opinion of yourself & learned

friends as to the labelling the plants of

the Bernhardi herb^m as you suppose

this is not a good season for sending it via

N Orleans - after the 1st of August would

be better - - - If not too much trouble

please purchase for me -

De Candolles Prodromus —

Endlichers Enchiridium Botanicum

the Gen^a plan^m of the last named author

with the supplement I have already &
done of De Candolles Flore has late-
-ly the honour of becoming acquainted
with Doct Hilgard, a learned & enthu-
siastic botanist and a pupil of yours
— he is very busy increasing his herba
-rium & carrying out his alliances —
— Professor Asa Gray was written to
saying you had kindly mentioned my
name, with plan of the garden &c — but re-
-ceived neither plants or answer to my
letter — I have sent to Vilmorin & Co for
Catalogues — and shall procure seeds
of Graminae & other agricultural seeds from
them — from a Catalogue lately procured
I find Geitner, of Saxony, the best nursery collec
-tion for botanical purposes, and intend
to order from them —
The Spring has been very favourable for
the growth of plants & trees — abundant
moisture & free from late frosts — am

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now vigorously at-work on the build-
ings of the Hort Bot Missouriensis-
everything is being constructed in a
durable manner & architectural Style
— your cactus plants have suffered —
my forcing houses - tho at a moderate
temperature. I rather think did not
suit them, intend to remove them out
of door in a few days — I shewed
Doct Pope your list of books, but the
Society was out of funds and not
able to purchase —
Professor Smiley mentions in his Intro^n
to Bot^y - a paper that is sold in London
especially for Lab arums — please enquire
& bring a sample of the paper & see the
Profs mentioned in the same work

Signature removed by Mrs. Leigh for
engraved plate - to be published - 11-22-79.

P.S. Since writing y^r ofst in fav of Rudd & Co
was printed Spaid

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Rec'd Heidelberg
3 Aug

Plant

Tower Grove
and Naples Dec 24 St Louis July 1868

Prof Geo Engelmann

Dear Sir

Received Yr
kind favour from N York of ap
29th — and a short time since your
esteemed letter from Berlin — and
keep in my mind their contents
— I am quite aware that you notice as
much cultivated in the eastern States
is a pretty, maple of the same slow
growth here as our Saccharinum, our
specimens are 7 to 10 years planted &
15 to 18 ft high — intend to propagate it,
but the seeds have as yet failed to come
to maturity, as also with the A. platan-
oides, A. pseudo platanus — as also with
all our pines and abies — the largest
Yucca angustifolia flowered last
month — the top of the flower stem
was 6 ft from the ground, but the
flowers not brilliant, a few seed pods

have formed – the oaks from the
acorns you gave us, are doing fine
ly, and will be ready for the Quer-
-citron next Spring, am much
obliged by your information re-
=garding "Musa ensete" – am afraid
the receiving them from seed would
be more than we could manage
– the flowers of the Yucca remain as
they were, but new leaves are putting
out – our Cycas has put out new fronds
and is growing vigorously I expect
flowers & fruit someday – the
Cacti are all blooming as usual
– after the wet Spring the garden had
a fine appearance, fruit generally
will be a poor crop except grapes, which
never looked better, we are now suf
-fering from drouth.
The City Council have at last passed
an ordinance to provide the funds
for the improvement of Tower

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George Engelmann Papers

Grove Park" — am sorry you can not have Doctor to take a part in the great work, also regret the absence of our friend Doct Post — the growth of the trees will be no speedy work owing to our drouthy Summers, last season was very bad and the present promises no better for us are loosing many young trees — —

We have arranged the treasures you left us for the Museum, we are also getting the seeds &c sent to our Chamber of Commerce from the Paris exhibition — quite a collection of agricultural seeds — Hope you may meet with something interesting for our Museum is yet poorly provided — We are progressing with the new plant House — the new heating apparatus succeeds admirably — we hope to

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I have it ready to receive the fine
palms & our fine specimen of Pan
=danus — Doct Wislizenus has a
small bag of seeds of the Coniferæ, rec'd
to your address from Hugo Schmidt
— on looking them over I find them mostly
of tender sorts, such as we have tried, —
our dry summers are very unfavour
able for raising the Pine family from
seeds — I have lately found "P. Pallas"
Abies Nordmanniana" quite an acquisi
=tion to our hardy sorts — hoping
You are enjoying in the North Gem
Capital the best of the arts & sciences
I with best wishes to Mrs E & your
Son I remain Dr Sir
Yours truly
Henry Shaw

To
Dr Geo Engelmann
Prof. Alex Braun
Koch St 22
Berlin Prussia

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Rec'd Thurs 15th Paris

TOWER GROVE PARK,

Superintendent's Office,

St. Louis, Jan'y 24th 1866

S Shaw

Dr Sir Engelmann

I was more than glad to receive your kind letter of Dec 24th from Naples, and that you are enjoying the mild climate of Southern Italy but for fine weather we have that here in perfection since the first of Jan'y — at this writing the thermo stands at 45 Fah'r & the same for a week past except at night when we have frost enough to harden the ground — the rivers are all open for navigation — nobody's ice houses are filled (except mine) — and no fear of the fruit blossoms — Since I addressed you last, have brought the plant houses to a finish, removing those that stood against the wall & putting them in range with the Palm house, the heating apparatus answers behond my expectations, using either coal or wood, the plants since removal are growing finely — particularly the palms Pandaneæ & Musaceæ — I have received a few rare things from Haage & Schmidt — that came out in fine order and living — palms & ferns's — and am sending them a further order, comprising a great number, but small in quantity of such plants as I

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thought advisable - particularly for outdoor deco-
-ration, for we have now good dry Cellars for winter
preservation - Vigna " Vigiera is included for Musa
Ensete they have seed only (3 Kew 1 R.) - in the other
Musa's we never see seeds, the same as the pine ap-
-ple - of the Acheranthes we have the two kinds, both
beautifull

26th - Have just returned from a two hours tour round
the park with Superintendant Janica - to see about
laying out the drives and entrances - we are also
widening Turner Grove avenue to 80 feet - we are
not ready yet for planting - my little of that can
be done this year - some trees growing in Nursery
rows via the garden are now large enough - my expe-
-rience is altogether against planting large trees, even
after adopting all the precautions of root preparing,
hoeing & staking &c recommended, hope the lots
around will sell well, measuring abt 80 acres, shall
be disappointed if they bring less than an annual in-
come of ten thousand dollars, we are applying to the
State legislature to prohibit smoke and other nuisances
within half a mile of the park - smoke is frightfully
on the increase in St Louis, even Students Addition
is not exempt - our Park supply of water must be
mainly got from wells, the asylum 3400 feet d -
. Still boring - New water works progressing - but water
d aqua, niente

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pumped from the river must necessarily be expensive — the temperature has changed, to day abt 10 degrees of frost last night & still freezing — where the old plant houses stood against the 14th Brick walls are preparing to plant figs having had such good success heretofore, am arranging to protect them without the necessity of bending down to the ground as heretofore, the Brown Smyrna is the kind best suited to us, both for quality and abundant bearing — have as yet made no progress with the plum — but certainly with our native sorts — good results might be looked for, the Quercetum grows slowly except the red oaks — the macrocarpas fruited for the first time last fall — the young oaks from the acorns you furnished will be ready to plant this spring — had I another Quercetum to plant would plant seeds (say acorns) as London recommends, oaks like hickories & pecans are so checked in growth by transplanting — The pinetum also grows slow but the trees are healthy, and will some day want thinning out, pinus edulis 16 years from seed not yet 3 feet — A Engelmanni (Parry) grew on nicely last year — Doct. do think of our Cone Collection if you meet with cones of P pinaster, Laricio, Pyrenaica, Pallasiana, pumilio — excelsa, Abies orientalis, picchta, Nordmanniana, or others you may think of 28th — I find the palms abound in synonyms, — and suspect Sabal Palmetto of Haage & S's catalogue, to be the S. Blackburniana of the English catalogues — in our usual H & S's catalogue is deficient it gives no authority for names — I understand Prof Gray is gone to Europe — if so you will probably fall

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in with him – the learned Agassiz was him last October and much pleased with our garden, promised some leaves & fruit of Amazonian palms, for our Museum – when he finds leisure to assort his collection – have you read his journal or rather Mrs Agz journal of their Brazilian travels – quite intensting & very pishy — the garden was visited by increased numbers the past summer, I think not less than 40 to 50 thousand, I do wish we had something more interesting & instructive for the inspection of such vast multitudes —— —— The temperature still continues mild Therm. 37 – at 8 o/clk this morng & at noon 45 – wind South & S East – have set more hands to work on grading & earthwork in the Park – am carrying out my own plan & design – rather presumptious, but think I have sufficient reasons for so doing – am using the strictest economy to make the appropriation of 360 thousand $ – complete the work – excessive taxes have brought on a fit of economy among the people, and many searchings researches are now making in City financial departments, am apprehensive City improvements will be partly stopped – great many houses and stores for rent – at reduced rates, and new houses in the suburbs for sale – while at Naples you have visited Caserta, where are the largest Camelias I ever saw except at Charleston – Capo del monte was my favourite resort being near the city – how different Vesuvius now – when there in 1842 – went down the crater and looked into the orifice of the volcano — – for two mornings last week had a brilliant Aurora Borialis from 5 to 6 o/clk – not seen in the city for years with kind remembrance to Mrs S & the young gentlemen Yours Truly Shaw.

GELMANN, M. D.

3003 *Locust Street.*

St. Louis, Mo., Nov 11th 187[illegible]

Dr Asa Gray

Dear Sir

Fraxinus Americana is our common Ash, and acuminata, epiptera and the juglandifolia of some authors are considered synonyms

Besides this we have in the bottoms opposite here F. viridis, which is also called juglandifolia by some authors.

In the woods about the Falling springs Fraxinus quadrangulata occurs.

F. Jamburnifolia seems to be a northeastern and F. pubescens (= tomentosa) an eastern tree; I have found neither of them here.

F. platycarpa is southern

There are several southwestern species, none of which, I believe, is yet in cultivation.

I enclose the seeds of the new Californian Lilium Parryi just received which I hope, you will grow.

Respectfully

G Engelmann

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TOWER GROVE PARK,

Superintendent's Office,

St. Louis, Mar 25th 1879

Contents of a Box received from Dr Parry —

Agaves

7 Verschaffelti
2 attenuata
1 filifera Compacta
1 Bonpartea gracilis
1 Yucca flaccida?
4 Hechtia — Species
4 A. Americana

already in our collection

1 — " — Species?
2 Aloes Soccotrina?
4 — " — " Dead
2 Agaves dead

Cacti

1 Opuntia Curaçavica
1 — " — Species?
2 Echinocactus Texensis
2 Cereus mmecanthus
1 — " — princeps

in collection

16 small Echinocactus & Mammilaria 7
8 cactus - dead

P.S.

Please send a number of leaves of the following species for Herbarium —

Dr Parry
" Coulteri
" Gladiis
" Pringlei

Doct Engelmann Dr Sir — Besides the above, I have an immense number of specimens of fibres, and stems - all awaiting your inspection.

Respectfully
Jany Shaw

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